

1-23-13

PROPORTIONS IN WORD PROBLEMS

- They will compare the relationship between 2 things. Then they will ask a "what if" situation.

STEPS :

- ① Decide which item will go on top & which will go on bottom of the 1st ratio
- ② Plug in the #s
- ③ Set up the 2nd ratio in the same order as Step 1
- ④ Plug in the # you are given in the "what if" situation.
Use a variable for the unknown item.
- ⑤ Solve the proportion using "heart method".

EX: When coloring eggs, use 4 drops of red to 5 drops of blue to make purple. If you use 10 drops of red, how many drops of blue should you use?

$$\frac{5 \text{ blue}}{4 \text{ red}} = \frac{x \text{ blue}}{10 \text{ red}}$$

$$\frac{50}{4} = \frac{4x}{4}$$

$$12.5 = x$$